

Other World Computing

OWC
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MacBook



OWC Mercury On-The-Go Pro Series

Assembly Manual

1 INTRODUCTION

1.1 SYSTEM REQUIREMENTS

- 1.1.1 Mac Requirements
- 1.1.2 PC Requirements

1.2 PACKAGE CONTENTS

1.3 ABOUT THIS MANUAL

1.4 PORT VIEW & CABLE CONNECTIONS

1.5 DETAILED VIEW

- 1.5.1 LED Indicator

2 SYSTEM SETUP

2.1 SOFTWARE INSTALLATION

2.2 CONNECTIONS TO COMPUTER

3 FORMATTING

3.1 MACINTOSH FORMATTING

3.2 REMOVING AN EXISTING GUID PARTITION

3.3 WINDOWS FORMATTING

4 TROUBLESHOOTING & TIPS

4.1 TROUBLESHOOTING

4.2 USAGE TIPS

5 APPENDIX

5.1 FAQ

5.2 ABOUT DATA PROTECTION

6 CUSTOMER SERVICE

6.1 BEFORE CONTACTING CUSTOMER SERVICE

6.2 CONTACT INFORMATION

1 INTRODUCTION

1.1 System Requirements

1.1.1 Mac Requirements

- Minimum PowerPC G4 CPU, 128MB RAM
- FireWire interface, Mac OS X 10.2 or later
- USB 2.0 interface, Mac OS X 10.2 or later
- USB 3.0 interface - see your interface card manufacturer for specifications

1.1.2 PC Requirements

- Minimum 500MHz Intel Pentium III CPU, 128MB RAM
- FireWire interface, Windows 2000 / XP / Vista / Windows 7
- USB 2.0 or 3.0 interface, Windows 2000 / XP / Vista / Windows 7

1.2 Package Contents



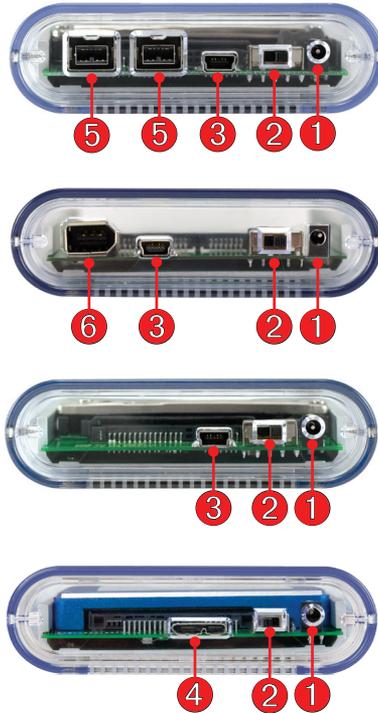
- ① OWC Mercury On-The-Go Pro
- ② Carrying Case
- ③ Software CD Bundle
- ④ User Guide & Owner's Manual
- ⑤ FireWire 800 (1394B) cable*
- ⑥ FireWire 400 (1394A) cable*
- ⑦ USB 2.0 (A-B) cable*
- ⑧ USB 3.0 (A-B) cable*

*** USB cable included with all solutions. FireWire 400 cable only included with FireWire 400/USB solutions. FireWire 800 cable only included with FireWire 800 solutions. Refer to website for list of exact cables included.**

1.3 About This Manual

Firmware, images, and descriptions may vary slightly between this manual and the unit shipped. Functions and features may change depending on the firmware version. Please visit the product webpage for the most recent specifications.

1.4 Port View & Cable Connections



Cable Connections: (from the right)

- ① **DC IN port** - Use an auxiliary power source (not included, and not normally needed) with your OWC Mercury On-The-Go Pro with this port. If you need a power adapter, they are available via separate purchase at: <http://eshop.macsales.com/otgpower>
- ② **On/Off Switch** - Turn the OWC Mercury On-The-Go Pro on and off here.
- ③ **USB 2.0 mini Port** - Connect one of your computer's USB ports to the OWC Mercury On-The-Go Pro here using the included cable. If your computer's USB port does not provide enough power to use the OWC Mercury On-The-Go Pro, OWC offers a custom "Y" cable that will draw power from 2 separate USB 2.0 ports - it's available for purchase at: <http://eshop.macsales.com/search/auxiliary>
- ④ **USB 3.0 micro Port** - Connect to a computer or interface card that has a USB 3.0 port using this connection. It is also backwards compatible with USB 2.0 for use with older systems.
- ⑤ **FireWire 800 (1394B) Ports** - Connect one FireWire 800 port to your computer using the included cable and have an extra FireWire 800 port to add peripherals with!
- ⑥ **FireWire 400 Port** - Connect to a computer that has a FireWire 400 port using this connection, or daisy-chain additional enclosures with this port.

NOTE: OWC does not recommend bus powering more than one external storage device.

1.5 Detailed View

The OWC Mercury On-The-Go Pro has a cool blue LED at the front of the hard drive enclosure. It will illuminate blue when powered on, and flash on drive activity (both reading and writing).

2 SYSTEM SETUP

This guide will get you up and running quickly, demonstrating how to install your own 2.5" hard drives into the OWC Mercury Elite-AL Pro Dual mini enclosure.



Your computer is a static-sensitive device. It is susceptible to invisible damage if not protected during installation.

We recommend proper grounding by using a grounding strap. Make sure to work in a clean and static-free area, and avoid wearing clothing that retains static charges.

For more information, please visit

<http://www.macsales.com/static>

Got tools? If you don't have the tools necessary to complete this installation, Newer Technology has a fantastic toolkit with everything you need included to perform this installation, and most common computer hardware installations.



It's available at:

<http://www.macsales.com/tools>



ATTENTION: The OWC Mercury On-The-Go Pro utilizes an integrated aluminum heatsink that is exposed on the bottom of the enclosure. This heatsink will become warm to the touch during heavy usage. Use caution when picking the enclosure up.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation

①



②



Begin by removing the bridge card from the aluminum heatsink. It just slides in, no screws are holding it in place.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation (continued)

③



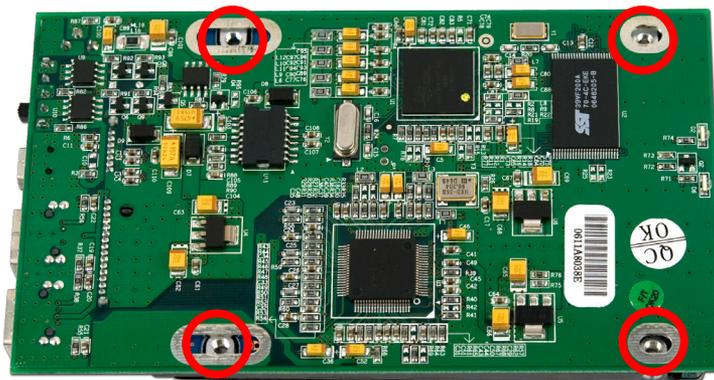
Set the aluminum heatsink aside for now.

④



Place your hard drive mechanism onto the bridge card and fully seat the drive onto the connector.

⑤



Turn the bridge over and look through the screw holes. Make sure they are fully lined up and insert 4 screws into the hard drive.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation (continued)



Slide the bridge card with the hard drive into the aluminum heatsink - there is a notch that the bridge card will slide into.

Secure the hard drive using 4 screws from the included plastic bag, through the heatsink, into the hard drive. Don't overtighten, start all 4 screws before fully tightening.



Gently slide the completed heatsink, drive, and bridge assembly into the acrylic enclosure. Take 4 Phillips screws from the included plastic bag and once again, don't fully tighten the screws, just start them, as you will need to rock the assembly back and forth a bit to get all 4 screws started, then you can tighten them. Note that there is a rubber mounting strip on the bottom of the heatsink, that makes it a bit difficult to get the screws all the way in. You may find holding the enclosure in your hand, screws down, works best.

2 SYSTEM SETUP

2.1 Hard Drive Assembly & Installation (continued)



Here you see the OWC Mercury On-The-Go Pro drive inserted into the acrylic enclosure, ready to have it's end cap attached.



Insert the acrylic endcap, fully sliding it over the bridge card ports.

Once you have the endcap on, attach it to the enclosure using the 2 included small Phillips screws. The location is circled above.

Do not exert too much force while screwing these in, you can accidentally strip the screw head easily.

3 FORMATTING

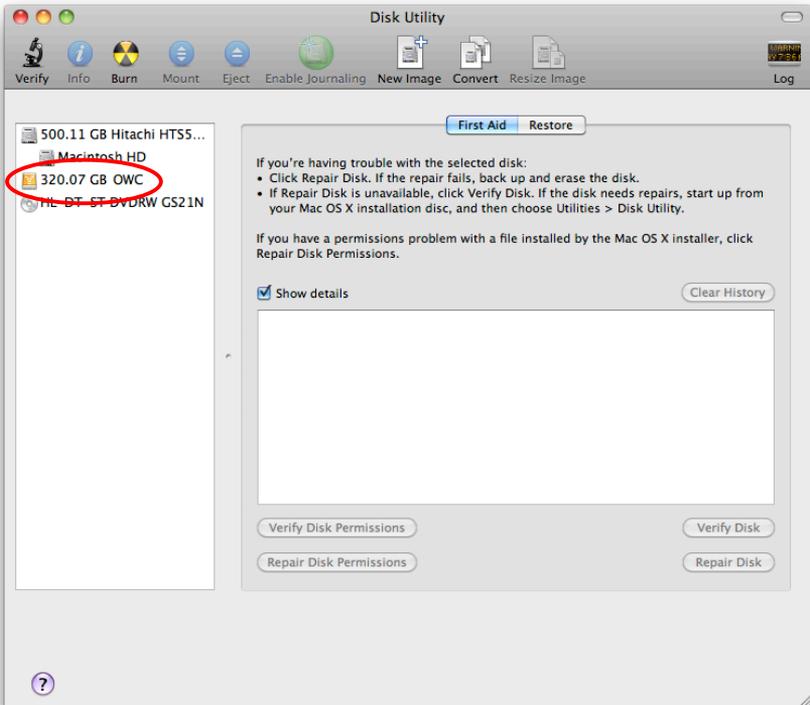
3.1 Formatting your OWC Mercury On-The-Go Pro on a Macintosh with Mac OS X



WARNING: This procedure will destroy ALL data on the disk you run it on!!! Be sure there is **nothing** you need to keep on your drive before running any of these commands.

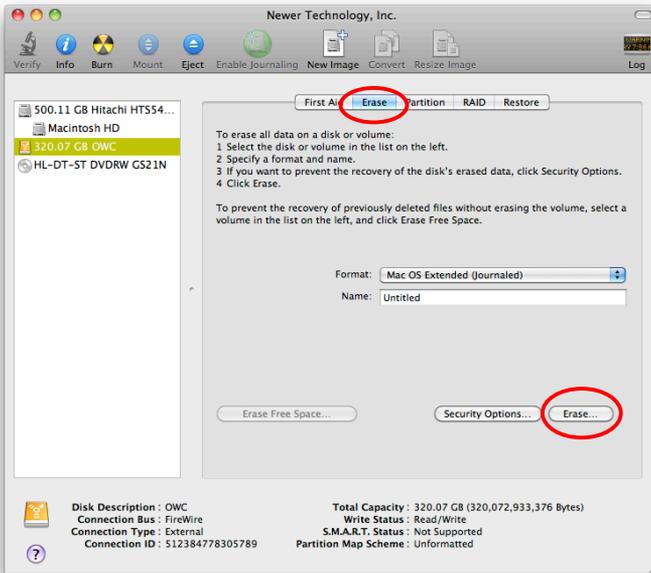
Open the Disk Utility application, which is located in /Applications/Utilities

1



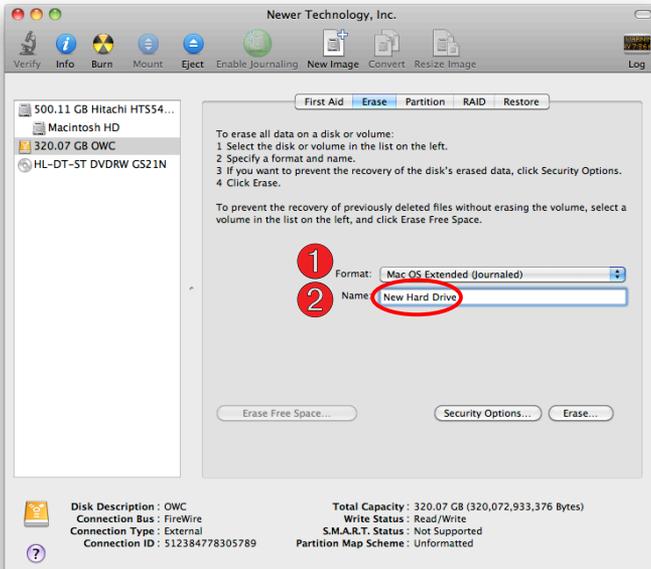
Select the device with no volumes attached to it; in this picture, that would be the 320.07 GB OWC device. Click on the picture of the drive icon next to the text.

2



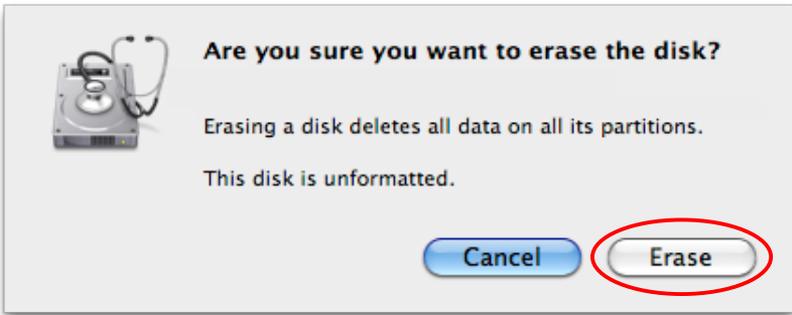
Once you've selected the OWC device, you will notice the above change in the Disk Utility application. Click on the "Erase" tab in this picture.

3



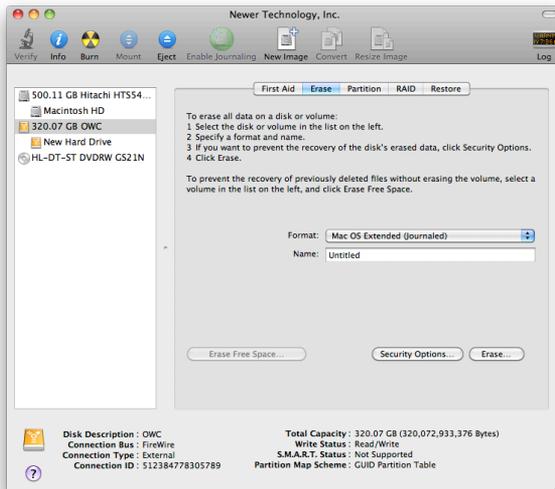
You then need to name the volume that you want to format, and erase it. Name the volume as you want, choose the Volume Format pulldown (Mac OS Extended (Journaled) is default), and click the Erase button.

4



Click the erase button to confirm you wish to erase the disk.

5



After a few moments, the erase command will complete and the OWC Mercury Elite-AL Pro Dual mini volume will mount on your desktop. You can quit Disk Utility, you're all set!

3.2 Removing the GUID Partition Scheme

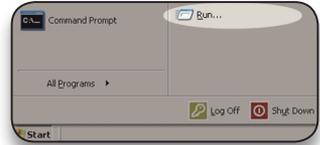
Only for XP, 2000, ME and earlier. (XP 64-BIT, Vista & Windows 7 can continue to the next section)

Your new OWC Mercury On-The-Go Pro is preformatted for use with a Macintosh. Unfortunately, this is not readable by Windows without special software. If you wish to use your storage solution on a computer running Windows, you will need to repartition and reformat using the following instructions.



WARNING: The **clean** command will destroy ALL data on the disk you run it on!!! Be sure there is **nothing** you need to keep on your drive before running any of these commands.

① Go to the DOS command prompt by selecting “Run” from the Start Menu.



② Type in **cmd** in text box, and hit the “OK” button.



③ Type **diskpart** and hit enter.

```
C:\WINDOWS\system32\cmd.exe - diskpart
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>diskpart
```

④ Type **list disk** and hit enter.

```
Microsoft DiskPart version 5.1.3565
Copyright (C) 1999-2003 Microsoft Corporation.
On computer: BBELLMAN-XP
DISKPART> list disk
```

⑤ Type **select disk x** replacing x with the number of the disk you want to reformat. (Typically, you will see an asterisk (*) under “GPT” for the disk requiring formatting.)

```

Disk ###  Status   Size  Free  Dyn  Gpt
-----  -
Disk 0    Online   32 GB    0 B
Disk 1    Online  149 GB    0 B
DISKPART> select disk 1
```



WARNING: The **clean** command will destroy ALL data on the disk you run it on!!! Be sure there is **nothing** you need to keep on your drive before running any of these commands.

⑥ Type **clean** and hit enter.

```
Disk 1 is now the selected disk.
DISKPART> clean
```

⑦ Type **exit** and hit enter.

⑧ Close the command prompt window.

You may now proceed with formatting the drive.

3.3 Formatting your OWC Mercury Elite-AL Pro Dual mini on Windows 2000 and later

Instructions for other operating systems can be found at <http://www.macsales.com/format>.



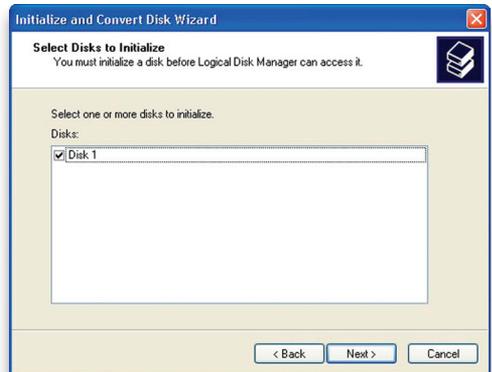
WARNING: This procedure will destroy ALL data on the disk you run it on!!! Be sure there is **nothing** you need to keep on your drive before running any of these commands.

① With the drive connected to the computer and powered on, right click on the “My Computer” icon and select “Manage” from the menu. The “Initialize and Convert Disk Wizard” window should appear.



If the Wizard does not appear, expand the Storage menu by clicking on the plus (+) sign. Then, right click next to the disk number of the drive that you have just connected and click Initialize to bring up the Wizard.

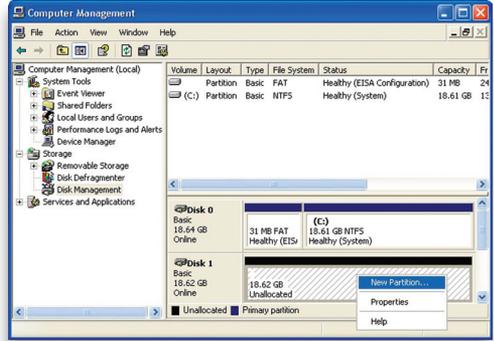
② In the next window, there should be only one drive listed. That will be the drive that you connected via FireWire or USB. Make sure the box next to the drive name is checked and click “Next.”



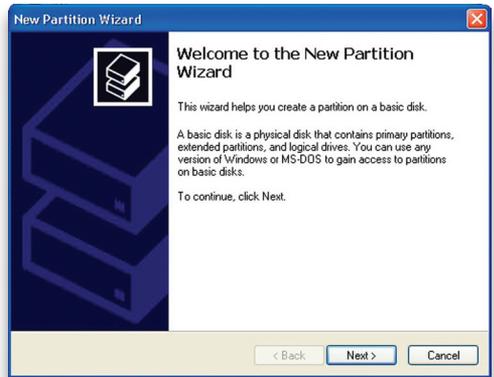
③ The Wizard will perform its tasks, and you will get the following screen. You may click “Finish.”



④ Your drive will appear similar to how Disk 1 does below. Notice that the space on the lower right reads as “Unallocated.” Right click in this space and choose “New Partition.”



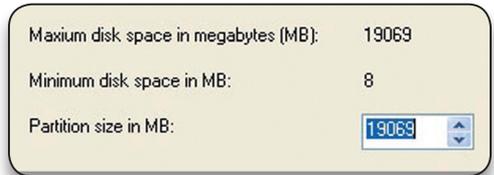
⑤ The “New Partition Wizard” will launch. Click “Next” to continue.



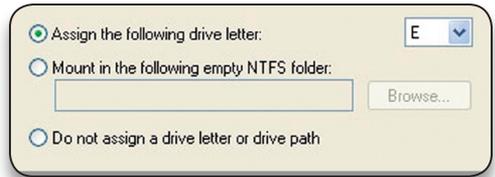
⑥ Specify your partition type as “Primary,” and click “Next.”



⑦ The wizard will display the maximum partition size for your drive. It is strongly recommended that you **do not** change the default value. Click “Next.”

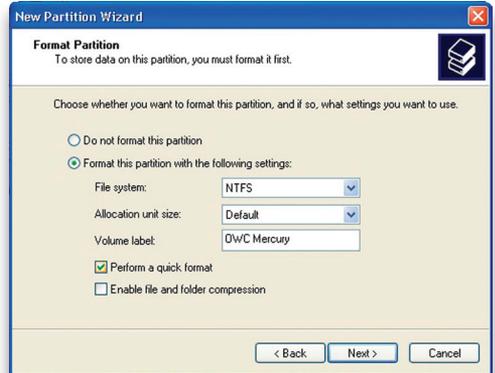


⑧ If you like, you can specify the drive letter designation for your new drive. Otherwise, one will automatically be assigned. Click “Next.”

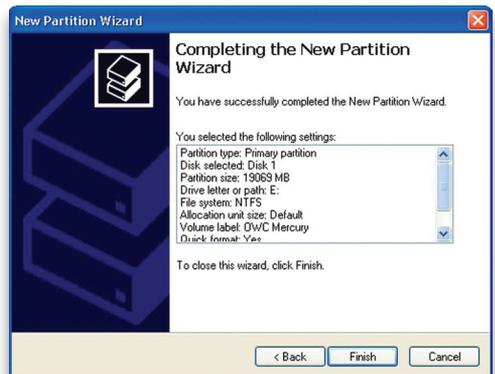


⑨ Before you can use the drive, it must be formatted. On most systems running Windows 2000 or later, it is advisable to specify the file system as NTFS. Leave the Allocation unit size as “Default,” and feel free to give the drive whatever name you prefer. Be sure to check the box “Perform a quick format.”

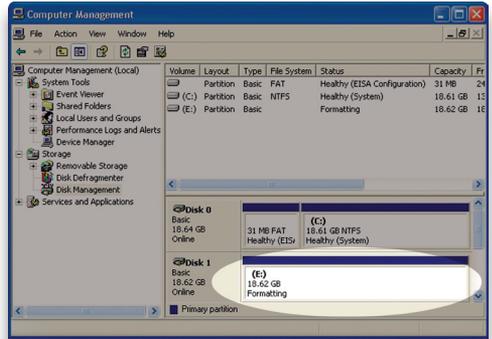
If you do not check the “Perform a quick format” box, it will take several hours for your drive to format. Click “Next.”



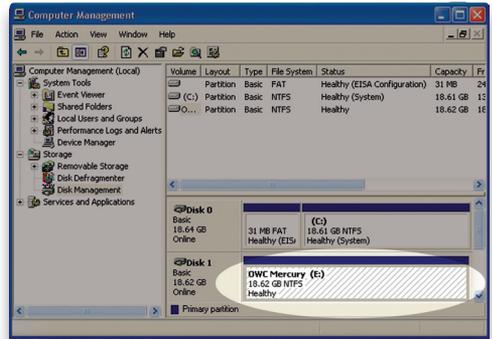
⑩ At the end of the Wizard, you will see a summary of the information that you specified during the previous steps. Click “Finish.”

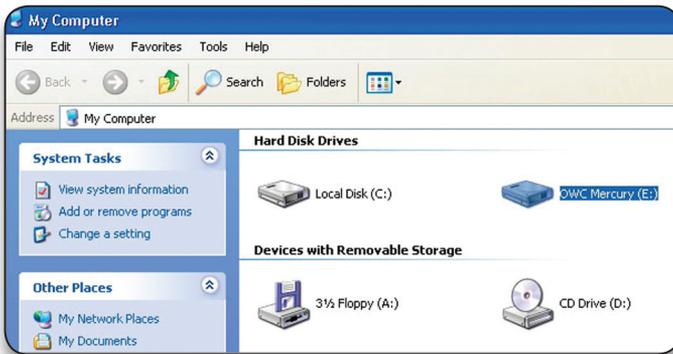


①① Once you have finished with the formatting wizard, you will see that your new drive (represented as “Disk E” in this case) will display a message of “Formatting.” This should only take a couple of minutes if you chose the quick format option.



①② After a moment or two, the drive's status will change from “Formatting” to “Healthy.”





①③ At this point, you may close the Computer Management window. Your drive is ready to use and can be found in “My Computer.”

Using your new Storage Solution on both Macs and PCs?

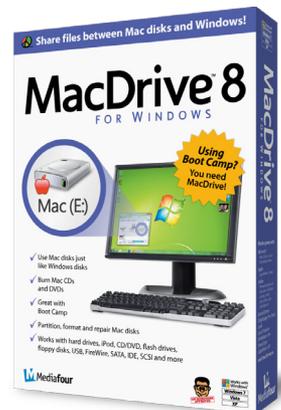
MacDrive takes the guesswork out of sharing files. Whether you are transferring files between home and the office, a class room lab and your dorm room or even on the same computer, MacDrive makes it painless. In fact, you’ll hardly know MacDrive is working.

Once installed MacDrive will automatically give you access to any Mac disk you pop into your computer. MacDrive even puts an “apple” icon on the Mac disk, just to keep things clear.

You can access files on the Mac disk just like you would with a Windows formatted disk. Open files from the disk or from within a program. Mac files automatically get the right icons and file name extensions under both Windows and Mac OS. Works great with software from Microsoft, Adobe, Quark, FileMaker, Avid, Digidesign, Corel, NewTek and more.

You can find MacDrive at:

<http://eshop.macsales.com/search/macdrive>



4 TROUBLESHOOTING & TIPS

4.1 Troubleshooting

- **Many problems can be traced to power or connectivity issues.**

Verify that your cables (both ends!) are properly plugged into the computer and storage solution. If they are, and the storage solution is still not working properly, try connecting to another interface such as the USB connection and see if the device works properly. If these suggestions do not work, try the OWC Mercury On-The-Go Pro on a different computer, if available to you.

- **Disk is recognized, but unable to be accessed.**

If the disk is recognized by the System, but you're having trouble accessing it, try using the Repair Disk and Repair Permissions options in the Disk First Aid pane of OS X's Disk Utility or using a commercial piece of software such as Alsoft's **Disk Warrior** for Mac or Prosoft Engineering's **Data Rescue**, which is available for both Mac & PC.

- **Drive does not show up at all**

If your OWC Mercury On-The-Go Pro drive is not being recognized at all, begin by checking some basic possibilities, such as:

- Are all cables tightly attached to the computer and drive?
- Have you tried a different cable and/or port?
- Is the power switch in the ON position?

- **Further Troubleshooting**

For further troubleshooting tips, visit our FAQ section online at:

http://eshop.macsales.com/tech_center/FAQ/index.cfm

If you are still experiencing problems, please contact OWC Technical Support. Contact information is available in chapter 6.

4.2 Tips

Identifying the LED indicators on your drive

The OWC Mercury On-The-Go Pro has a cool blue LED at the front of the hard drive enclosure. They will illuminate blue when powered on, and flash on drive activity (both reading and writing).

To properly unmount any connected hard drives from your computer, you need to follow a few simple steps:

• For Macintosh systems:

There are multiple methods to unmount disks with Macintosh systems. Either drag the icon for the hard disk you wish to dismount to the trash can, or you can click the eject icon next to the hard disk name in under the “DEVICES” tab in the sidebar in any finder window, and finally another method is to right click on the hard drive icon on your desktop and select “Eject”.

• For Windows systems:

1. Go to the System Tray (located in the lower right corner of your screen). Click on the Eject icon (a small green arrow over a hardware image).
2. A message will appear, detailing the devices that the Eject icon controls. i.e. “Safely remove...” Click on this prompt.
3. You will then be given the following message. “Safe to Remove Hardware”. It is now safe to unhook the OWC Mercury On-The-Go Pro.

Optional AC Adapter

While the OWC Mercury On-The-Go series is designed to be bus powered, there are some special situations where customers require a power adapter.

If you want to purchase an AC adapter , they are available from our Web site:
<http://eshop.macsales.com/otgpower>

NOTE: OWC does not recommend bus powering more than one external storage device.

Special note for using FireWire with older Macintosh systems

If you are using an older Macintosh system, or using a PCI FireWire card to interface with your **OWC Mercury On-The-Go** drive, we recommend using the included **Intech® Hard Disk SpeedTools™** to tune the drive for optimum performance. Transfer errors or corruption can be avoided by using this software. This is especially recommended if you are *not* using Mac OS X but rather using Mac OS 9.

Backup Software

For Mac OS X, we have included **Prosoft Engineering's Data Backup**. Data Backup makes it easy to backup to FireWire and USB drives, network drives, CDs and even DVDs. Make schedules so you don't need to 'think' about backing up... It does it for you. Your drive is also fully compatible with Apple's Time Machine if you are running Mac OS X 10.5 "Leopard".

For PCs running Windows 2000 and later, we have included **Novastor's NovaBACKUP**. Built-in support for hundreds of the most popular storage devices and a step-by-step backup and restore wizard makes NovaBACKUP extremely easy to use.

To install and use the included backup software for either OS, please insert the included CD and follow the installation and operation instructions on the disc.

Cloning your hard drive (making an exact copy of it):

If you want to make an exact duplicate of a hard drive, we highly recommend Mike Bombich's donationware "**Carbon Copy Cloner**". It's a great tool and is included with the bundled software CD provided with this storage solution.

Custom OS X Icons

If you wish to replace the custom OS X icon for your new hard drive, you can find instructions and a download link on our Web site:

<http://eshop.macsales.com/hdicons>

5 APPENDIX

5.1 FAQ

Q: How do I format my storage solution?

A: OWC has detailed instructions online for most popular operating systems, located at: http://eshop.macsales.com/tech_center/fwhdd.cfm

Q: What file system should I choose when formatting my drive?

A: This will depend on how you want to use the drive, but in general we recommend:

- Mac OS X : HFS + (Mac OS Extended)
- Windows 2000/XP/Vista : NTFS
- For cross-platform compatibility, FAT32 will work, but single file sizes are limited to 4GB. Other options using 3rd party software exist but are not covered here.

Q: Will the hard drive spin down when my computer goes to sleep or into stand-by mode?

A: Yes, it will spin down to save energy. It will take about 30 seconds to access your data after being in sleep or stand-by mode.

5.2 About Data Protection

To ensure that your files are protected and to prevent the loss of your data, we strongly suggest that you keep two copies of your data: one copy on your OWC Mercury On-The-Go Pro, and a second copy on either your internal hard drive or another storage medium, such as an optical backup, or on a second external hard drive.

Any data loss or corruption while using the OWC Mercury On-The-Go Pro is the sole responsibility of the user, and under no circumstances will Other World Computing be held liable for compensation or the recovery of any lost data.

6 CUSTOMER SERVICE

6.1 Before Contacting Customer Service

- Read this manual and review Chapter 4: Troubleshooting & Tips.
- Try to confirm the problem is with the hard drive. If you have a second computer, move the enclosure to that system and verify that the solution does not function with that machine.
- Visit our tech center for more support suggestions, including FAQs.
http://eshop.macsales.com/tech_center/index.cfm

If you still need support, please have the following available to you:

- The serial number of the enclosure
- Your invoice number
- What operating system you are using
- Which kind and model of computer you are using

All of this will help speed your support contact along.

6.2 Support Hours Of Operation

8AM - 8PM CST Monday - Friday

9AM - 4PM CST Saturday

By Telephone - (800) 275-4576 (North America only)

International customers please call (815) 338-8685

Live Chat is available 24 hours a day, 7 days a week . Visit:

<http://eshop.macsales.com> for more information.

Or, you can email. Submit your email at
<http://eshop.macsales.com/Service/Tech.cfm>

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FCC Statement:

Warning! Modifications not authorized by the manufacturer may void the user's authority to operate this device.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Health And Safety Precautions:

- Use proper anti-static precautions while performing the installation of your hard drives into this drive enclosure. Failure to do so can cause damage to your drive mechanisms, and / or the hard drive enclosure.
- Read this User's Guide carefully, and follow the correct procedure when setting up the device.
- Do not open your hard drive or attempt to disassemble or modify it. Never insert any metallic object into the drive to avoid any risk of electrical shock, fire, short-circuiting or dangerous emissions. Your hard drive contains no user-serviceable parts. If it appears to be malfunctioning, have it inspected by a qualified Other World Computing Technical Support representative.
- Never expose your device to rain, or use it near water, or in damp or wet conditions. Never place objects containing liquids on the drive, as they may spill into its openings. Doing so increases the risk of electrical shock, short-circuiting, fire or personal injury.

General Use Precautions:

- Do not expose the enclosure to temperatures outside the range of 5° C to 40° C (41° F to 104° F). Doing so may damage the drive or disfigure its casing. Avoid placing your drive near a source of heat or exposing it to sunlight (even through a window). Conversely, placing your drive in an environment that is too cold or humid may damage the unit.
- Always unplug the hard drive from the electrical outlet if there is a risk of lightning or if it will be unused for an extended period of time. Otherwise, there is an increased risk of electrical shock, short-circuiting or fire.
- Use only the power supply shipped with the device.
- Do not use the hard drive near other electrical appliances such as televisions, radios or speakers. Doing so may cause interference which will adversely affect the operation of the other products.
- Do not place the drive near sources of magnetic interference, such as computer displays, televisions or speakers. Magnetic interference can affect the operation and stability of your hard drive.
- Do not place heavy objects on top of the drive.
- If you detect a problem, consult the Troubleshooting section in this manual.
- Protect your hard drive from excessive exposure to dust during use or storage. Dust can build up inside the device, increasing the risk of damage or malfunction.
- Other World Computing recommends the use of normal glass cleaning products to keep the high lustre finish at its finest with this product. Be sure not to get any moisture inside the holes and if you do, allow time to air dry before use.
- Do not block the ventilation outlets on the front of the drive. These help to keep your drive cool during operation. Blocking the ventilation outlets may cause damage to your drive and cause an increased risk of short-circuiting or fire.

